



## City of Alameda, California

Fire Department  
Fire Preventive Services  
2263 Santa Clara Ave, #190  
Alameda CA 94501  
ph 510-337-2120 \* fax 510-749-9170  
[www.alamedafire.org](http://www.alamedafire.org)



### **FIRE PERMIT**

### **HIGH-PILED COMBUSTIBLE STORAGE**

In accordance with the 2007 California Fire Code, Chapter 23, a fire permit from the Permit Center is required to use a building for high-piled combustible storage and must be renewed and inspected annually. At the time of permit application, plans and specifications shall be submitted for review and approval.

When applying for a High-Piled Combustible Storage permit, please follow these steps:

1. Complete a Fire Permit application
2. Draw plans and specs
3. Submit application and plans to Fire Prevention at the Permit Center

Fire Prevention will then:

1. Process your application and plans
2. Review for approval
3. Contact applicant when permit is ready for pick-up

## **HIGH-PILED COMBUSTIBLE STORAGE PLANS AND SPECIFICATION REQUIREMENTS**

### **2007 California Fire Code, Chapter 23**

The California Fire Code, Chapter 23, regulates storage within a building of combustible materials in closely packed piles, and combustible materials on pallets, racks, or on shelves where the top of the items being stored is greater than twelve (12) feet in height. High-pile combustible storage also includes certain high-hazard commodities such as rubber tires, Group A plastics, flammable liquids, idle pallets, and similar commodities where the top of the storage is greater than six (6) feet in height.

#### **Plans shall include the following:**

1. Dimensioned or scaled floor plan of the entire building and site showing:
  - a. Locations and dimensions of high-piled storage areas.
  - b. Aisle dimensions between each storage array.
  - c. Location and size of fire department access roadways.
  - d. Location, size and spacing of all doors into the storage area.
  - e. Location of sprinkler riser and all valves controlling the water supply of ceiling and in-rack sprinklers.
  - f. Location of Knox Box. (Knox box must be a 1300 series and can be ordered by mail by completing the form obtained from the Fire Prevention office.)
  - g. Location of Fire Department sprinkler connection.
2. Dimensional or scaled enlarged typical rack or shelving plans and sections or elevations showing:
  - a. Usable storage height for each storage area.
  - b. Number of shelves or number of tiers within each rack, with vertical spacing between shelves or tiers dimensioned.
  - c. Dimension and location of transverse and longitudinal flue spaces.
3. A table of commodities being stored, referenced to the floor plan, showing:
  - a. Size, quantity, location and description of products, packing materials and containers. The Fire Department will determine the classification of commodities in accordance with California Fire Code, Section 8101.4.
  - b. Size, quantity, and location of items, which are banded or encapsulated.

4. Specifications of the fire protection and smoke removal systems proposed or existing:
  - a. Sprinkler design density, K-factor and activation temperature rating of sprinkler heads, and pressure at the base of the riser, from existing riser plate or hydraulic calculations.
5. When required by the fire code official, an evacuation plan for public accessible areas and a separate set of plans indicating:
  - a. Location and width of aisles.
  - b. Location of exits, exit access doors and exit signs.
  - c. Height of storage.
  - d. Locations of hazardous material (see permit guidelines for hazardous material storage).